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APPLICATION NO.	ITLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/943,501	08/31/2001	Hiroyuki Sawada	213485US3	8166
22850	7590 (06/24/2003			
OBLON, SPIVAK, MCCLELLAND. MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
ALEXANDRI			COLAIANNI, MICHAEL	
			ARTUNIT	PAPER NUMBER
			1731	
			DATE MAILED: 06/24/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summar	09/943,501	SAWADA ET AL.				
- Wee Housin Gamman	Examiner	Art Unit				
The MAILING DATE of this same	Michael P Colaianni	1731				
Period for Reply	munication appears on the cover st	1731 neet with the correspondence address				
A SHORTENED STATUTORY PERIO THE MAILING DATE OF THIS COMM Extensions of time may be available under the provi after SIX (6) MONTHS from the mailing date of this If the period for reply specified above is less than thi If NO period for reply is specified above, the maximu Failure to reply within the set or extended period for Any reply received by the Office later than three mor earned patent term adjustment. See 37 CFR 1.704(I	sions of 37 CFR 1.136(a). In no event, however, communication. irty (30) days, a reply within the statutory minimurum statutory period will apply and will expire SIX (reply will, by statute, cause the application to be	may a reply be timely filed n of thirty (30) days will be considered timely. 6) MONTHS from the mailing data of this communication.				
	A) Elland and O.A. A					
1) Responsive to communication(s2a) This action is FINAL.						
,	2b)⊠ This action is non-final.					
closed in accordance with the pi	ition for allowance except for forma ractice under <i>Ex parte Quayle</i> , 193	al matters, prosecution as to the merits is 85 C.D. 11, 453 O.G. 213.				
4) $oxed{\boxtimes}$ Claim(s) <u>1-25</u> is/are pending in the	ne application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) $igotimes$ Claim(s) <u>1-4,7-9 and 22</u> is/are rej	ected.					
7)⊠ Claim(s) <u>5,6,10-21 and 23-25</u> is/are objected to.						
8) Claim(s) are subject to resi	triction and/or election requiremen	!				
Application Papers		ι.				
9)☐ The specification is objected to by	the Examiner.					
10) The drawing(s) filed on is/ar	e: a) ☐ accepted or b) ☐ objected to	by the Examiner				
Applicant may not request that any o	objection to the drawing(s) be held in a	theyance Soc 27 CED 4 occas				
11)⊠ The proposed drawing correction fi	led on <u>20 November 2001</u> is: a)⊠	approved b) disapproved by the Examiner.				
" approved, corrected drawings are	required in reply to this Office action	, starpproved by the Examiner.				
12) The oath or declaration is objected	to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim	m for foreign priority under 35 U.S.	.C. § 119(a)-(d) or (f)				
a)⊠ All b)□ Some * c)□ None of:	•	(1).				
1. Certified copies of the priorit	y documents have been received					
2 Certified copies of the priority	y documents have been received i	n Application No.				
3. ☐ Copies of the certified copies	of the priority documents have be	een received in this National Stage				
14) Acknowledgment is made of a claim	for domestic priority under 35 H S	C \$ 110(a) (b. a.				
a) ☐ The translation of the foreign la 15)☐ Acknowledgment is made of a claim ttachment(s)	nguage provisional application has					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (FID Information Disclosure Statement(s) (PTO-1449) FID Information Disclo	4)	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)				
Patent and Trademark Office D-326 (Rev. 04-01)	Office Action Summary	2				

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Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "predetermined" in claim 1 is a relative term, which renders the claim indefinite. In the claim, the term "predetermined" is used in line 8 in regards to viscosity and in line 12 in regards to time. The term "predetermined" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised for the scope of the invention.

Claim 2 is rejected under 35 U.S.C. 112, second paragraph; the language "substantially continuously applied" is vague and unclear. To explain, "continuously applied" means that the pressure is applied at the same pressure for the entire length of a specific amount of time. However, "substantially continuously applied" means that a pressure is applied at a particular force, but not for the entire length of a designated time. It is not clear what "substantially continuously applied" means because either the force is applied continuously or it is not.

Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "smaller" in claim 3 is a relative term, which renders the claim indefinite. The term "smaller" is not defined by the claim, the specification does not provide a standard for

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ascertaining the requisite degree, and one of the ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 3, 4, 7, 8 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Sato et al, Patent number: 5,228,894.

In claim 1, Sato et al teaches the molding of glass material softened by heat with a molding device comprising both an upper and a lower mold having a molding surface so that optically functional surfaces are formed by the application of both a first pressure and a second pressure (Sato, column 2, para. 2); the temperature of the glass material being maintained in the range of 615 °C down to 525 °C during the second pressing/cooling stage [covering ($T_g + 30$) to ($T_g + 50$) found in the applicant's claim 1] (Sato, Figure 5, denoted by the dashed curve labeled glass temperature); the removal of the glass material after it is cooled and obtains a specific viscosity (Sato, column 12, claim 1, lines 2-25), and a glass transition temperature, T_g , of 550 °C (Sato, column 9, lines 16-18).

Claim 2 is rejected under 102(b) because the "Load on the lower mold" as designated in Fig. 5 (Sato) could describe the language "substantially continuously applied" found in the claim. Specifically, the phrase "substantially continuously applied" includes a discontinuous application of pressure during the cooling and removing steps.

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Sato et al also teaches that the secondary pressure is smaller than the molding pressure or the first pressure as described in applicant's claim 3 (Sato Fig. 5, "Load on the upper mold" and "Load on the lower mold").

Claim 4's statement that the secondary pressure at P_2 being greater than P_1 can be found in Sato et al Figure 5 as denoted by the Pressure in Glass, P_1 , equaling zero (0) at a point in time between T_4 and T_6 and the Pressure in Glass during the second pressing, P_2 , equaling 200 kgf/cm².

As to claims 7 and 8, Sato et al teaches that the temperature of the lower mold should be within the range of 615 $^{\circ}$ C and 525 $^{\circ}$ C during the cooling process (Sato, column 11, lines 8-11) (assuming that the glass material sits on the lower mold and that the curve for the glass temperature and the lower mold temperature are isotherms). The applicant's teaching anticipates the temperature in the range of 500 $^{\circ}$ C - 550 $^{\circ}$ C for the glass material in the cooling step. Also, Sato et al teaches that the T_g of the glass is 550 $^{\circ}$ C. The temperature range taught by Sato et al encompasses a particular point, 525 $^{\circ}$ C, within the applicant's claimed range with sufficient specificity. Thus the claims are anticipated.

As to claim 9, Sato inherently teaches that the glass material is maintained within a range of (T_g) to (T_g –20) degrees centigrade, or 530 °C –550 °C, during cooling, because it is inherent that the glass material's temperature would at some point during the cooling process pass through this range as shown in Figure 5 (Sato).

Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al, Patent number: 5,228,894 in view of Tomisaka, Publication No. US 2001/0039811 A1. Sato et al teaches the applicant's claimed invention. See the 102(b) rejection above for the Sato's teachings. However, Sato does not teach using two convex molds.

However, Tomisaka teaches using the two convex molds to make glass lenses (Tomisaka, para. 0019, lines 7-8). It would have been prima facie obvious at the time the invention was made to combine Tomisaka's twin convex molds with Sato et al's lens molding method because using Tomisaka's twin convex molds would enhance the versatility of the method by permitting lenses with various focal points and shapes to be made.

Allowable Subject Matter

Claims 5, 6, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 24, and 25 are objected to because they are dependent upon claims that have been rejected. Each individual claim will be allowable if it is amended to be an independent claim. Reasons for allowance: none of the prior art taught or fairly suggested the subject matter of claims 5-6,10-21, or 23-25.

Claim Objections

Claims 2, 5, 7, 8, 9, and 12 are objected to because of the following informalities: In claim 2, the phrase "up to the removing" should be changed to "up to the removing of the glass

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material" to provide clarification for the reader; In claims, 5, 7, 8, 9, and 12, the word "degree" should be changed to "degrees." Appropriate correction is required.

Drawing Objections

Figure 7 is objected to because of the following informality: The word "maintenance" in the title of the chart is spelled incorrectly. Appropriate correction is required.

Specification Objections

Specification paragraph 0013, line 7 is objected to because of the following informality: The word "degree" should be changed to "degrees." Appropriate correction is required. Please check the remainder of the specification for typographical errors.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Colaianni whose telephone number is 703-305-5493. The examiner can normally be reached on 9-5-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Griffin, can be reached on 703-308-1164. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9494 for regular communications and same for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

MICHAEL COLAIANNI PRIMARY EXAMINER